



HT Solar Energy J.S.C.

Shanghai Aerospace Automobile Electromechanical Co., Ltd.

HIGHWAY

SUSTAINING INNOVATION
SINCE 1960S

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Electromechanical Co., Ltd.

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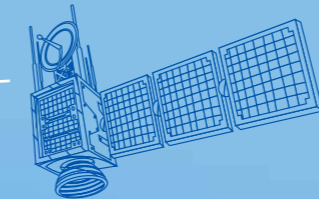
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HIGHWAY



HT-SAAE A Large Scale State-Owned Company

Shanghai Aerospace Automobile Electromechanical Co. Ltd.,(HT-SAAE) belongs to China Aerospace Science & Technology Corporation, and Shanghai Academy of Spaceflight Technology. HT-SAAE started its research on solar technology application in space since 1960's.

As a large scale state-owned company, HT-SAAE owns a vertically-integrated industry chain from silicon ingots, wafers, cells, solar modules to solar systems and its subsidiaries have formed three main industry bases in Inner Mongolia, Shanghai and Jiangsu.

Since the beginning of 21st century, we have undertaken around 600 solar PV systems, including the "Bright Project" in west of China, The roof-top solar system for 2010 World EXPO. Solar plant in Jia Yuguan, China and solar plants in Italy and Germany.

Silicon



ORISI Silicon Co.,Ltd

Wafers



Shanghai Shenzhou New Energy Development Co., Ltd

Solar Cells



Lianyungang Shenzhou New Energy Co., Ltd

PV Modules



Shanghai Solar Energy S&T Co., Ltd

PV Systems



HT Solar Energy J.S.C.

HIGHWAY

Solar Module

HT48-156M HT48-156M(V) 225W-240W

* V means 1500V module



Advanced surface treatment, less surface reflection and 5BB cell design can reduce the series resistance and improve the module efficiency



18.3%
Module Efficiency



Designed for high voltage systems of up to 1500 VDC, increasing the string length of solar systems and saving on BoS costs



TUV certification



Higher module's output power



Certified to withstand dynamic mechanical load 1000 Pascal



HT-SAAE guarantees highest production standards: IEC 61215, IEC 61730, IEC 62716 (Ammonia corrosion) & IEC 61701 (Salt Mist Corrosion)



PID resistant



Microcrack resistant
Triple EL tested of high quality control.



All the modules are sorted and packaged by amperage, reducing mismatch losses and maximizing system output.



Products Warranty



Warranty on power output



Strict quality control, meeting the highest international standards: ISO 9001, ISO14001 and OHSAS18001



Positive tolerance 0/+5w guaranteed



Entire module certified to withstand extreme wind (2400 Pa) and snow loads (5400 Pa)



Electrical Characteristics

Module	HT48-156M / HT48-156M(V)			
Maximum Power at STC(Pmax)	225W	230W	235W	240W
Open-Circuit Voltage(Voc)	31.0V	31.4V	31.5V	31.8V
Short-Circuit Current(Isc)	9.29A	9.35A	9.64A	9.72A
Optimum Operating Voltage (Vmp)	25.9V	26.3V	25.8V	26.2V
Optimum Operating Current(Imp)	8.69A	8.75A	9.15A	9.19A
Module Efficiency	17.1%	17.5%	17.9%	18.3%
Power Tolerance	0 ~ +5W			
Maximum System Voltage	1000V/1500V DC(IEC)			
Maximum Series Fuse Rating	15A			
Operating Temperature	-40 °C to +85 °C			
STC: Irradiance 1000W/m ² , module temperature 25, AM=1.5				
Optional black frame or white frame module according to customer requirements				

NOCT

Module	HT48-156M / HT48-156M(V)			
Maximum Power	166W	170W	173W	177W
Open Circuit Voltage (Voc)	28.9V	29.1V	29.3V	29.6V
Short Circuit Current (Isc)	7.50A	7.55A	7.79A	7.85A
Maximum Power Voltage (Vmp)	24.0V	24.4V	24.0V	24.3V
Maximum Circuit Current (Imp)	6.90A	6.95A	7.24A	7.28A
NOCT	45 °C ± 2 °C			
NOCT: Irradiance 800W/m ² , ambient temperature 20 °C, wind speed 1 m/s				

Mechanical Characteristics

Solar Cells	Monocrystalline 156.75 × 156.75mm
No. of Cells	48 (6 × 8)
Dimensions	1324 × 992 × 35mm (52.1 × 39.1 × 1.38in)
Weight	14.5kg (32.0lbs)
Front Glass	High transmission tempered glass
Frame	Anodized aluminium alloy
Junction Box	IP67
Cable	4mm ² (IEC), 900mm
Connectors	MC4/MC4 Compatible
Packaging Configuration	30pcs/box, 1020pcs/40'HQ Container

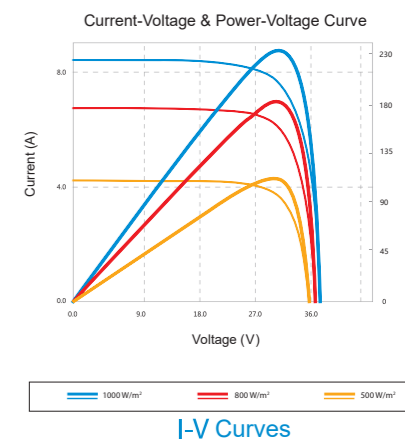
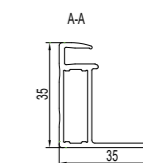
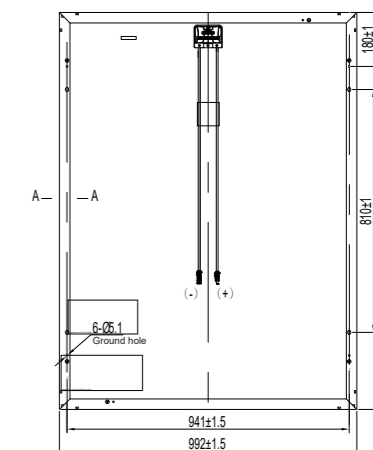
Temperature Characteristics

Temperature Coefficient of Pmax	γ (Pm)	-0.39%/K
Temperature Coefficient of Voc	β (Voc)	-0.29%/K
Temperature Coefficient of Isc	α (Isc)	0.049%/K

Warranty

10-year product warranty	
25-year warranty on power output	
Specific information is referred to the product quality guarantee	

Information Box



I-V Curves

Shanghai Aerospace Automobile
Electromechanical Co., Ltd.
HT Solar Energy J.S.C.

Factory: Lianyungang ShenZhou
New Energy Co., Ltd.
HT Solar Energy J.S.C.

HIGHWAY

Solar Module

HT48-156P HT48-156P(V) 215W-225W

* V means 1500V module



Advanced surface treatment, less surface reflection and 5BB cell design can reduce the series resistance and improve the module efficiency



17.1%
Module Efficiency



Designed for high voltage systems of up to 1500 VDC, increasing the string length of solar systems and saving on BoS costs



TUV certification



Higher module's output power



Certified to withstand dynamic mechanical load 1000 Pascal



HT-SAAE guarantees highest production standards: IEC 61215, IEC 61730, IEC 62716 (Ammonia corrosion) & IEC 61701 (Salt Mist Corrosion)



PID resistant



Microcrack resistant
Triple EL tested of high quality control.



All the modules are sorted and packaged by amperage, reducing mismatch losses and maximizing system output.



10Ys
Products Warranty



25Ys
Warranty on power output



Strict quality control, meeting the highest international standards: ISO 9001, ISO14001 and OHSAS18001



5W
Positive tolerance 0/+5w guaranteed



Entire module certified to withstand extreme wind (2400 Pa) and snow loads (5400 Pa)



Electrical Characteristics

Module	HT48-156P / HT48-156P(V)		
Maximum Power at STC(Pmax)	215W	220W	225W
Open-Circuit Voltage(Voc)	30.4V	30.6V	30.8V
Short-Circuit Current(Isc)	9.04A	9.11A	9.18A
Optimum Operating Voltage (Vmp)	25.6V	26.0V	26.4V
Optimum Operating Current(Imp)	8.40A	8.47A	8.54A
Module Efficiency	16.4%	16.8%	17.1%
Power Tolerance	0 ~ +5W		
Maximum System Voltage	1000V/1500V DC(IEC)		
Maximum Series Fuse Rating	15A		
Operating Temperature	-40 °C to +85 °C		
STC: Irradiance 1000W/m ² , module temperature 25, AM=1.5			
Optional black frame or white frame module according to customer requirements			

NOCT

Module	HT48-156P / HT48-156P(V)		
Maximum Power	158W	162W	165W
Open Circuit Voltage (Voc)	28.1V	28.3V	28.5V
Short Circuit Current (Isc)	7.30A	7.36A	7.42A
Maximum Power Voltage (Vmp)	23.6V	24.0V	24.4V
Maximum Circuit Current (Imp)	6.69A	6.74A	6.78A
NOCT	45 °C ± 2 °C		
NOCT: Irradiance 800W/m ² , ambient temperature 20 °C, wind speed 1 m/s			

Mechanical Characteristics

Solar Cells	Polycrystalline 156.75 × 156.75mm		
No. of Cells	48 (6 × 8)		
Dimensions	1324 × 992 × 35mm (52.1 × 39.1 × 1.38in)		
Weight	14.5kg (32.0lbs)		
Front Glass	High transmission tempered glass		
Frame	Anodized aluminium alloy		
Junction Box	IP67		
Cable	4mm ² (IEC), 900mm		
Connectors	MC4/MC4 Compatible		
Packaging Configuration	30pcs/box, 1020pcs/40'HQ Container		

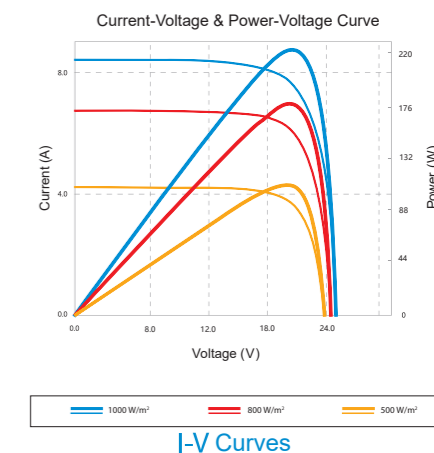
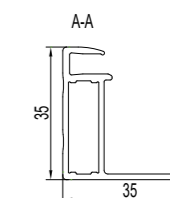
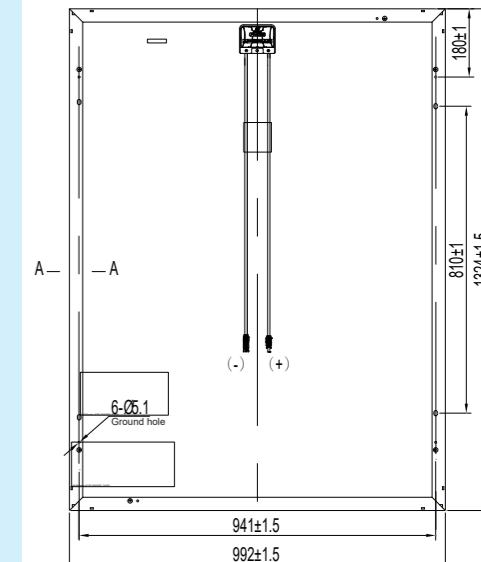
Temperature Characteristics

Temperature Coefficient of Pmax	γ (Pm)	-0.41%/K
Temperature Coefficient of Voc	β (Voc)	-0.32%/K
Temperature Coefficient of Isc	α (Isc)	0.050%/K

Warranty

10-year product warranty	
25-year warranty on power output	
Specific information is referred to the product quality guarantee	

Information Box



I-V Curves

Shanghai Aerospace Automobile Electromechanical Co., Ltd.
HT Solar Energy J.S.C.

Factory: Lianyungang ShenZhou New Energy Co., Ltd.
HT Solar Energy J.S.C.

HIGHWAY

Solar Module

HT60-156M HT60-156M(V) 280W-300W

* V means 1500V module



Advanced surface treatment, less surface reflection and 5BB cell design can reduce the series resistance and improve the module efficiency

18.4% Module Efficiency

Designed for high voltage systems of up to 1500 VDC, increasing the string length of solar systems and saving on BoS costs

TUV certification

Higher module's output power

Certified to withstand dynamic mechanical load 1000 Pascal

HT-SAAE guarantees highest production standards: IEC 61215, IEC 61730, IEC 62716 (Ammonia corrosion) & IEC 61701 (Salt Mist Corrosion)

PID resistant

Microcrack resistant Triple EL tested of high quality control.

All the modules are sorted and packaged by amperage, reducing mismatch losses and maximizing system output.

10Ys Products Warranty

25Ys Warranty on power output

Strict quality control, meeting the highest international standards: ISO 9001, ISO14001 and OHSAS18001

5W Positive tolerance 0/+5w guaranteed

Entire module certified to withstand extreme wind (2400 Pa) and snow loads (5400 Pa)



Electrical Characteristics

Module	HT60-156M / HT60-156M(V)				
	Maximum Power at STC(Pmax)	280W	285W	290W	295W
Open-Circuit Voltage(Voc)	38.6V	38.8V	39.0V	39.7V	39.9
Short-Circuit Current(Isc)	9.32A	9.39A	9.46A	9.64A	9.71
Optimum Operating Voltage (Vmp)	32.4V	32.8V	33.2V	32.4V	32.8V
Optimum Operating Current(Imp)	8.65A	8.70A	8.75A	9.12A	9.16A
Module Efficiency	17.2%	17.5%	17.8%	18.1%	18.4%
Power Tolerance	0 ~ +5W				
Maximum System Voltage	1000V/1500V DC(IEC)				
Maximum Series Fuse Rating	15A				
Operating Temperature	-40 C to +85 C				
STC: Irradiance 1000W/m ² , module temperature 25, AM=1.5					
Optional black frame or white frame module according to customer requirements					

NOCT

Module	HT60-156M / HT60-156M(V)				
	Maximum Power	207W	210W	214W	218W
Open Circuit Voltage (Voc)	36.0V	36.2V	36.4V	37.0V	37.2V
Short Circuit Current (Isc)	7.53A	7.59A	7.64A	7.79A	7.84A
Maximum Power Voltage (Vmp)	30.2V	30.5V	30.9V	30.2V	30.5V
Maximum Circuit Current (Imp)	6.85A	6.88A	6.92A	7.21A	7.24A
NOCT	45 °C ± 2 °C				
NOCT: Irradiance 800W/m ² , ambient temperature 20 C, wind speed 1 m/s					

Mechanical Characteristics

Solar Cells	Monocrystalline 156.75 × 156.75mm
No. of Cells	60 (6 × 10)
Dimensions	1640mm × 992mm × 35mm (64.6 × 39 × 1.4in)
Weight	18.5kg (40.8lbs)
Front Glass	High transmission tempered glass
Frame	Anodized aluminium alloy
Junction Box	IP67
Cable	4mm ² (IEC), 900mm
Connectors	MC4/MC4 Compatible
Packaging Configuration	30pcs/box, 910pcs/40'HQ Container

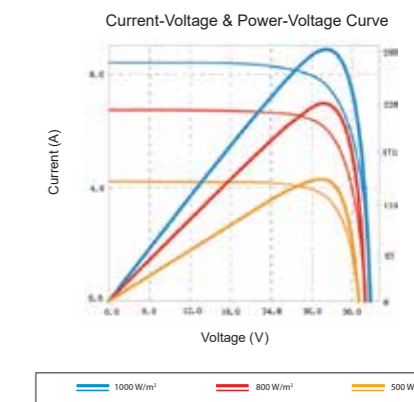
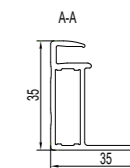
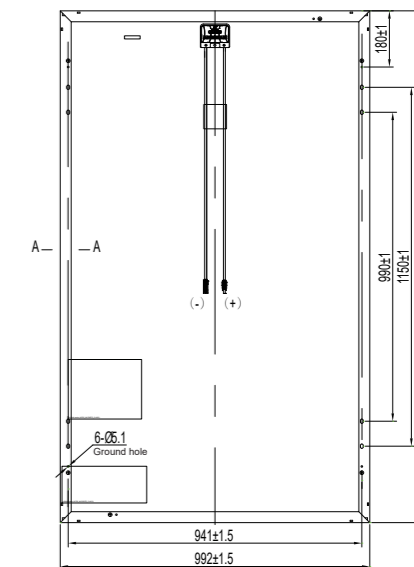
Temperature Characteristics

Temperature Coefficient of Pmax	γ (Pm)	-0.39%/K
Temperature Coefficient of Voc	β (Voc)	-0.29%/K
Temperature Coefficient of Isc	α (Isc)	0.049%/K

Warranty

10-year product warranty	
25-year warranty on power output	
Specific information is referred to the product quality guarantee	

Information Box



I-V Curves

Shanghai Aerospace Automobile Electromechanical Co., Ltd.
HT Solar Energy J.S.C.

Factory: Lianyungang ShenZhou New Energy Co., Ltd.
HT Solar Energy J.S.C.

HIGHWAY

Solar Module

HT60-156P HT60-156P(V) 265W-280W

* V means 1500V module



Advanced surface treatment, less surface reflection and 5BB cell design can reduce the series resistance and improve the module efficiency



17.2%
Module Efficiency



Designed for high voltage systems of up to 1500 VDC, increasing the string length of solar systems and saving on BoS costs



TUV certification



Higher module's output power



Certified to withstand dynamic mechanical load 1000 Pascal



HT-SAAE guarantees highest production standards: IEC 61215, IEC 61730, IEC 62716 (Ammonia corrosion) & IEC 61701 (Salt Mist Corrosion)



PID resistant



Microcrack resistant
Triple EL tested of high quality control.



All the modules are sorted and packaged by amperage, reducing mismatch losses and maximizing system output.



10Ys
Products Warranty



25Ys
Warranty on power output



Strict quality control, meeting the highest international standards: ISO 9001, ISO14001 and OHSAS18001



5W
Positive tolerance 0/+5w guaranteed



Entire module certified to withstand extreme wind (2400 Pa) and snow loads (5400 Pa)



Electrical Characteristics

Module	HT60-156P / HT60-156P (V)			
Maximum Power at STC(Pmax)	265W	270W	275W	280W
Open-Circuit Voltage(Voc)	37.8V	38V	38.2V	38.4V
Short-Circuit Current(Isc)	9.04A	9.11A	9.18A	9.25A
Optimum Operating Voltage (Vmp)	31.7V	32.1V	32.5V	32.9V
Optimum Operating Current(Imp)	8.37A	8.42A	8.47A	8.52A
Module Efficiency	16.3%	16.6%	16.9%	17.2%
Power Tolerance	0 ~ +5W			
Maximum System Voltage	1000V/1500V DC(IEC)			
Maximum Series Fuse Rating	15A			
Operating Temperature	-40 C to +85 C			
STC: Irradiance 1000W/m ² , module temperature 25, AM=1.5				
Optional black frame or white frame module according to customer requirements				

NOCT

Module	HT60-156P / HT60-156P (V)			
Maximum Power	195W	198W	202W	206W
Open Circuit Voltage (Voc)	35.0V	35.2V	35.4V	35.6V
Short Circuit Current (Isc)	7.30A	7.36A	7.42A	7.47A
Maximum Power Voltage (Vmp)	29.3V	29.7V	30.1V	30.4V
Maximum Circuit Current (Imp)	6.64A	6.68A	6.72A	6.75A
NOCT	45 °C ± 2 °C			
NOCT: Irradiance 800W/m ² , ambient temperature 20 C, wind speed 1 m/s				

Mechanical Characteristics

Solar Cells	Polycrystalline 156.75 x 156.75mm
No. of Cells	60 (6 x 10)
Dimensions	1640mm x 992mm x 35mm (64.6 x 39 x 1.4in)
Weight	18.5kg (40.8lbs)
Front Glass	High transmission tempered glass
Frame	Anodized aluminium alloy
Junction Box	IP67
Cable	4mm ² (IEC), 900mm
Connectors	MC4/MC4 Compatible
Packaging Configuration	30pcs/box, 910pcs/40'HQ Container

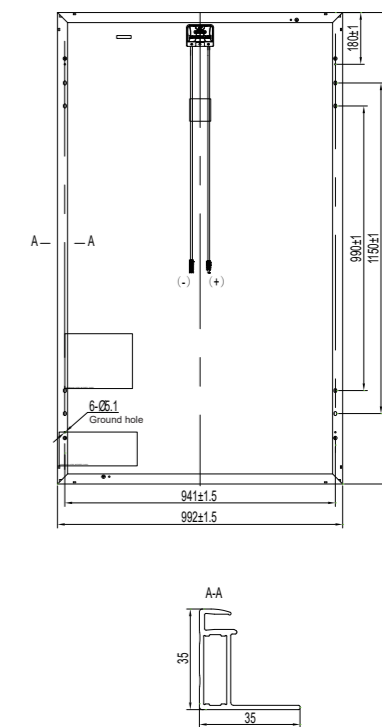
Temperature Characteristics

Temperature Coefficient of Pmax	γ (Pm)	-0.41%/K
Temperature Coefficient of Voc	β (Voc)	-0.32%/K
Temperature Coefficient of Isc	α (Isc)	0.050%/K

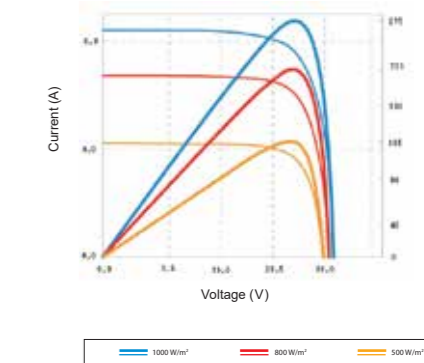
Warranty

10-year product warranty	
25-year warranty on power output	
Specific information is referred to the product quality guarantee	

Information Box



Current-Voltage & Power-Voltage Curve



I-V Curves

Shanghai Aerospace Automobile Electromechanical Co., Ltd.
HT Solar Energy J.S.C.

Factory: Lianyungang ShenZhou New Energy Co., Ltd.
HT Solar Energy J.S.C.

HIGHWAY

Solar Module

HT72-156M HT72-156M(V) 340W-360W

* V means 1500V module



Advanced surface treatment, less surface reflection and 5BB cell design can reduce the series resistance and improve the module efficiency



18.6%
Module Efficiency



Designed for high voltage systems of up to 1500 VDC, increasing the string length of solar systems and saving on BoS costs



TUV certification



Higher module's output power



Certified to withstand dynamic mechanical load 1000 Pascal



HT-SAAE guarantees highest production standards: IEC 61215, IEC 61730, IEC 62716 (Ammonia corrosion) & IEC 61701 (Salt Mist Corrosion)



PID resistant



Microcrack resistant
Triple EL tested of high quality control.



All the modules are sorted and packaged by amperage, reducing mismatch losses and maximizing system output.



10Ys Products Warranty



25Ys Warranty on power output



Strict quality control, meeting the highest international standards: ISO 9001, ISO14001 and OHSAS18001



5W Positive tolerance 0/+5w guaranteed



Entire module certified to withstand extreme wind (2400 Pa) and snow loads (5400 Pa)



Electrical Characteristics

Module	HT72-156M / HT72-156M(V)				
	Maximum Power at STC(Pmax)	340W	345W	350W	355W
Open-Circuit Voltage(Voc)	46.3V	46.5V	47.3V	47.5V	47.7V
Short-Circuit Current(Isc)	9.35A	9.42A	9.62A	9.69A	9.76A
Optimum Operating Voltage (Vmp)	39.5V	39.9V	38.3V	38.7V	39.1V
Optimum Operating Current(Imp)	8.61A	8.65A	9.16A	9.19A	9.23A
Module Efficiency	17.5%	17.8%	18.0%	18.3%	18.6%
Power Tolerance	0 ~ +5W				
Maximum System Voltage	1000V/1500V DC(IEC)				
Maximum Series Fuse Rating	15A				
Operating Temperature	-40 °C to +85 °C				

STC: Irradiance 1000W/m², module temperature 25, AM=1.5
Optional black frame or white frame module according to customer requirements

NOCT

Module	HT72-156M / HT72-156M(V)				
	Maximum Power	251W	254W	258W	262W
Open Circuit Voltage (Voc)	43.3V	43.5V	44.2V	44.4V	44.6V
Short Circuit Current (Isc)	7.55A	7.61A	7.77A	7.83A	7.88A
Maximum Power Voltage (Vmp)	36.9V	37.2V	35.7V	36.1V	36.5V
Maximum Circuit Current (Imp)	6.80A	6.83A	7.23A	7.25A	7.28A
NOCT	45 °C ± 2 °C				

NOCT: Irradiance 800W/m², ambient temperature 20 °C, wind speed 1 m/s

Mechanical Characteristics

Solar Cells	Monocrystalline 156.75 × 156.75mm
No. of Cells	72 (6 × 12)
Dimensions	1956mm×992mm×40mm(77.0in×39.1in×1.6in)
Weight	22.5kg (49.6lbs)
Front Glass	High transmission tempered glass
Frame	Anodized aluminium alloy
Junction Box	IP67
Cable	4mm ² (IEC), 1000mm
Connectors	MC4/MC4 Compatible
Packaging Configuration	26pcs/box, 672pcs/40'HQ Container

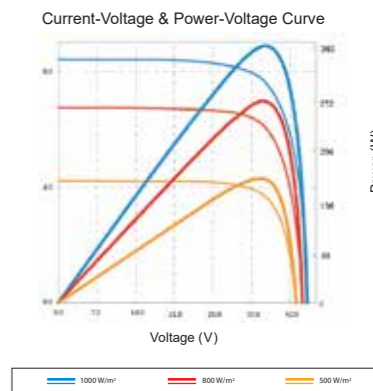
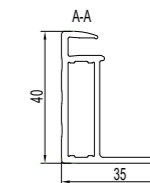
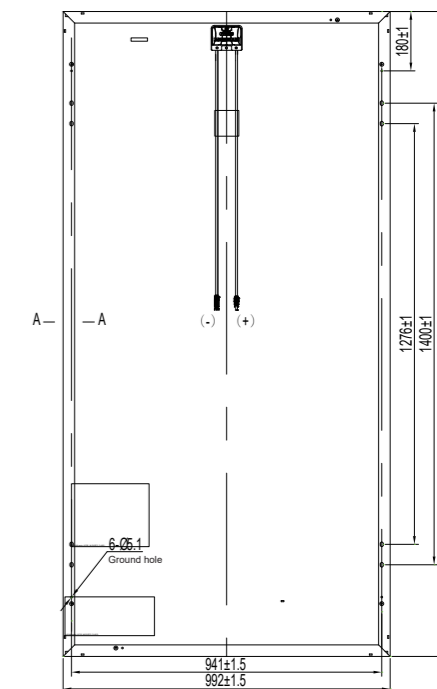
Temperature Characteristics

Temperature Coefficient of Pmax	γ (Pm)	-0.39%/K
Temperature Coefficient of Voc	β (Voc)	-0.29%/K
Temperature Coefficient of Isc	α (Isc)	0.049%/K

Warranty

10-year product warranty	
25-year warranty on power output	
Specific information is referred to the product quality guarantee	

Information Box



I-V Curves

Shanghai Aerospace Automobile
Electromechanical Co., Ltd.
HT Solar Energy J.S.C.

Factory: Lianyungang ShenZhou
New Energy Co., Ltd.
HT Solar Energy J.S.C.

HIGHWAY

Solar Module

HT72-156P HT72-156P(V) 315W-335W

* V means 1500V module



Advanced surface treatment, less surface reflection and 5BB cell design can reduce the series resistance and improve the module efficiency

17.3% Module Efficiency

Designed for high voltage systems of up to 1500 VDC, increasing the string length of solar systems and saving on BoS costs

TUV certification

Higher module's output power

Certified to withstand dynamic mechanical load 1000 Pascal

HT-SAAE guarantees highest production standards: IEC 61215, IEC 61730, IEC 62716(Ammonia corrosion) & IEC 61701 (Salt Mist Corrosion)

PID resistant

Microcrack resistant Triple EL tested of high quality control.

All the modules are sorted and packaged by amperage, reducing mismatch losses and maximizing system output.

Products Warranty

Warranty on power output

Strict quality control, meeting the highest international standards: ISO 9001, ISO14001 and OHSAS18001

Positive tolerance 0/+5w guaranteed

Entire module certified to withstand extreme wind (2400 Pa) and snow loads (5400 Pa)



Electrical Characteristics

Module	HT72-156P / HT72-156P(V)				
Maximum Power at STC(Pmax)	315W	320W	325W	330W	335W
Open-Circuit Voltage(Voc)	45.4V	45.6V	45.8V	46V	46.2V
Short-Circuit Current(Isc)	9.05A	9.12A	9.19A	9.26A	9.33A
Optimum Operating Voltage (Vmp)	37.8V	38.2V	38.6V	38.9V	39.3V
Optimum Operating Current(Imp)	8.34A	8.39A	8.44A	8.49A	8.54A
Module Efficiency	16.2%	16.5%	16.7%	17.0%	17.3%
Power Tolerance	0 ~ +5W				
Maximum System Voltage	1000V/1500V DC(IEC)				
Maximum Series Fuse Rating	15A				
Operating Temperature	-40 °C to +85 °C				
STC: Irradiance 1000W/m ² , module temperature 25, AM=1.5					
Optional black frame or white frame module according to customer requirements					

NOCT

Module	HT72-156P / HT72-156P(V)				
Maximum Power	231W	231W	239W	242W	246W
Open Circuit Voltage (Voc)	42.1V	42.3V	42.5V	42.7V	42.9V
Short Circuit Current (Isc)	7.31A	7.37A	7.43A	7.48A	7.54A
Maximum Power Voltage (Vmp)	35.0V	35.4V	35.8V	36.2V	36.5V
Maximum Circuit Current (Imp)	6.60A	6.64A	6.67A	6.70A	6.74A
NOCT	45 °C ± 2 °C				
NOCT: Irradiance 800W/m ² , ambient temperature 20 °C, wind speed 1 m/s					

Mechanical Characteristics

Solar Cells	Polycrystalline 156.75 × 156.75mm
No. of Cells	72 (6 × 12)
Dimensions	1956mm×992mm×40mm(77.0in×39.1in×1.6in)
Weight	22.5kg (49.6lbs)
Front Glass	High transmission tempered glass
Frame	Anodized aluminium alloy
Junction Box	IP67
Cable	4mm ² (IEC), 1000mm
Connectors	MC4/MC4 Compatible
Packaging Configuration	26pcs/box, 672pcs/40'HQ Container

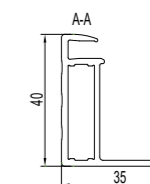
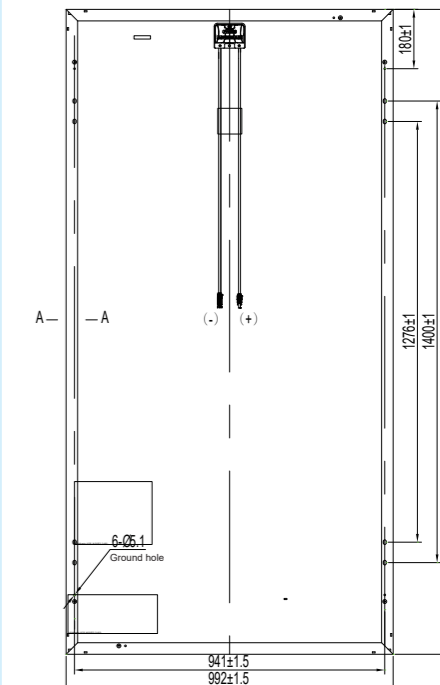
Temperature Characteristics

Temperature Coefficient of Pmax	γ (Pm)	-0.41%/K
Temperature Coefficient of Voc	β (Voc)	-0.32%/K
Temperature Coefficient of Isc	α (Isc)	0.050%/K

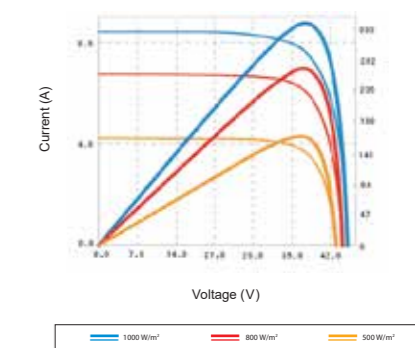
Warranty

10-year product warranty	
25-year warranty on power output	
Specific information is referred to the product quality guarantee	

Information Box



Current-Voltage & Power-Voltage Curve



I-V Curves

Shanghai Aerospace Automobile
Electromechanical Co., Ltd.
HT Solar Energy J.S.C.

Factory: Lianyungang ShenZhou
New Energy Co., Ltd.
HT Solar Energy J.S.C.



HIGHWAY